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滴瓶

圖面ノ略解 圖面ハ本案ヲ示ス第一圖ハ斜面圖ニシテ頂蓋ノ一部ヲ截缺ス第二圖ハ縱斷面圖ナリトス

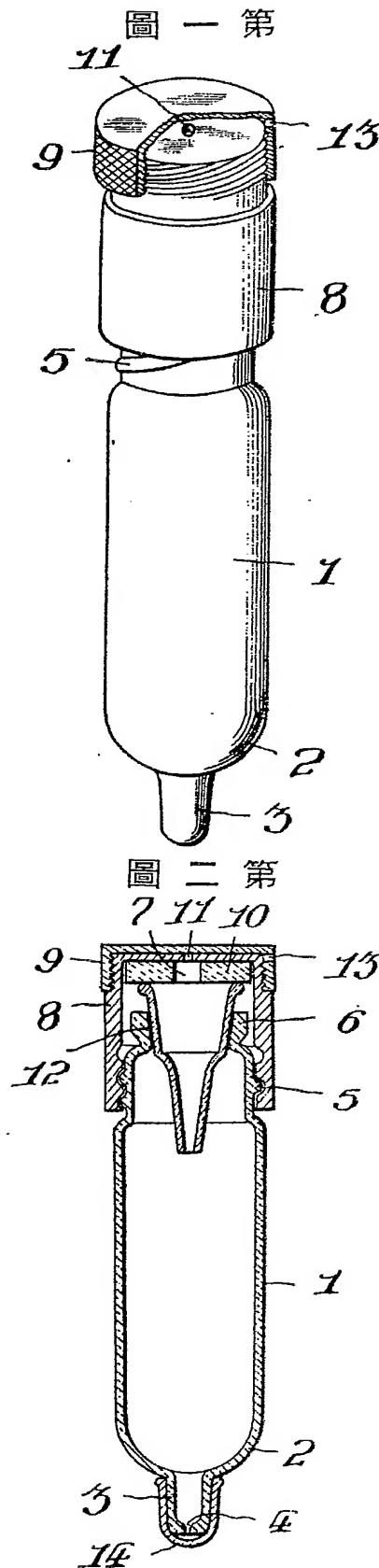
實用新案ノ性質、作用及效果ノ要領 本案ヲ圖面ニ付キ説明センニ圓筒狀ヲナス硝子製瓶體⁽¹⁾ノ一端部ニ段肩⁽²⁾ヲ設ケテ短小ナル嘴管⁽³⁾ヲ突成シ該管先端部ニ細孔⁽⁴⁾ヲ形成セシム⁽⁵⁾ハ瓶體ノ他端小徑部ニ設ケタル螺旋ニシテ其ノ先端部ニ磨合口部ヲ殘存セシメ該口部ニハ漏斗管⁽⁶⁾ヲ磨合セニヨリ嵌脫自在ニ密着シ得ヘカラシム⁽⁸⁾ハ「セルロイド」又ハ「エボナイト」ノ如キ可塑性物ヲ以テ成形セル帽蓋ニシテ上記螺旋⁽⁵⁾部ト螺旋シ其ノ上端部ニハ頂蓋⁽⁹⁾ハ帽蓋ト同一資材ヲ以テ成形セラル⁽¹⁰⁾ヲ螺旋着セシム⁽¹⁰⁾ハ帽蓋⁽⁸⁾ノ頂部内側ニ嵌着セシメタル「コルク」製ノ「バツキング」ニシテ⁽¹¹⁾ハ帽蓋頂壁ノ中央部ニ穿設セル透孔ナリトス但シ「バツキング」⁽¹¹⁾ノ中央部ニモ上記透孔⁽¹¹⁾ト連通シ得ヘク該孔ヨリモ徑大ナル透孔⁽⁷⁾ヲ穿設セシムルヲ要ス⁽¹²⁾ハ頂蓋⁽⁹⁾ノ側壁上端部ヲ貫通セル通氣孔ニシテ⁽¹⁴⁾ハ嘴管⁽³⁾ヲ包被セル護謨製ノ「キャップ」ナリトス

本案ハ使用ニ際シ薬液其他ノ内容液ヲ容入スルニ當リテハ帽蓋⁽⁸⁾及漏斗管⁽⁶⁾ヲ脱去セシムルト共ニ嘴管⁽³⁾ニ「キャップ」⁽¹⁴⁾ヲ被覆セシメタル狀態ニ於テ磨合セ口部⁽⁶⁾ヨリ液ヲ注入シ適量ヲ充タシタル後第二圖ニ示スカ如ク漏斗管⁽⁶⁾ヲ該磨合セ口部ニ嵌入シ密合セシメ更ニ頂蓋⁽⁹⁾ヲ螺旋着セル帽蓋⁽⁸⁾ヲ螺旋⁽⁵⁾部ニ螺旋セシムルモノニシテ斯カル狀態ニ於テハ能ク外氣ト遮断シテ密封セラルルヲ以テ貯藏安全ニシテ之ニ多少ノ動搖ヲ與フルモ内容液ノ漏出スル憂ナク假令使用ニ際シ「キャップ」ヲ脱離セシムルモ妄リニ嘴管孔ヨ

リ液ノ流下スコトナシ尙嘴管ヲ上ニシ頂蓋(9)ノ底面ヲ以テ載置スル場合ニハ「バッキング」(10)ヲ介シテ瓶内ハ帽蓋ト頂蓋トノ嵌合ニヨリ氣密ニ保持セラレ而カモ漏斗管(12)ノ脚部ハ瓶體内ニ幾分突出シ居ルヲ以テ内容液カ多量ニ存スル場合ト雖モ液壓ヲ低減シ得ルモノニシテ從テ内容液ノ漏出傾向ヲ一層減殺セシムルニ效果アルモノトス加之内容液ノ滴下ニ際シテハ頂蓋(9)ヲ少シク螺戻セシメテ通氣孔(13)ヨリ外氣ヲ誘導シ帽蓋(8)ノ透孔(11)ヲ介シテ瓶體内部ト相通セシムルコトニヨリ液ヲ自由ニ嘴管孔ヲ經テ滴下セシメ得ルト共ニ滴下ヲ中止セシムルニ當リテハ單ニ通氣孔(13)ニ指頭ヲ當テ更ニ頂蓋(9)ヲ螺進セシムルコトニヨリ確實ニ液ノ流下ヲ阻止シ得ルモノトス且瓶體ノ一端部ハ廣キ口部ヲ形成セルニヨリ漏斗管(7)ノ脱去ト共ニ洗滌作用ヲモ容易ナラシメ得ルノ利アリトス

斯クノ如ク本案ハ内容液ノ保藏並ニ滴下共ニ簡易且極メテ適確ナルモノナレバ眼藥用點眼器又ハ醫療用若クハ化學試驗用等ノ點滴瓶トシテ甚タ好適セルモノナリトス

登録請求ノ範囲 圖面ニ示ス如ク瓶體(1)ノ一端部ニ嘴管(3)ヲ突成シ他端部ニ螺條(5)ヲ設ケ其ノ先端部ニ磨合セ口部(6)ヲ形成シテ該口部ニ漏斗管(12)ヲ嵌着セシメ上記螺條(5)部ニ螺合シ頂壁ニ透孔(11)ヲ穿設セル帽蓋(8)ニハ側壁ニ通氣孔(13)ヲ有スル頂蓋(9)ヲ嵌合セシメテ成ル滴瓶ノ構造



Reference 2: Japanese Patent Application "Kokai" No. 51-146789

Reference 3: Japanese Utility Model Publication Sho. 12-002447

Reference 4: Japanese Patent Application "Kokai" 2003-126218

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II. English translation of relevant excerpts from Reference 3

"Numeral (8) denotes a cap lid formed of a plastic material such as "Celluloid", "ebonite", which is in threaded engagement with the threading portion (5), and at an upper end of the cap lid, there is threaded a top lid (9) (formed of a same material as the cap lid)."

"Numeral (13) denotes a aerating hole extending through an upper end of a lateral wall of the top lid (9)."

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"For use of the invention, for charging a content liquid such as drug liquid or the like, under a condition wherein the cap lid (8) and a beak tube pipe (12) are removed and a "cap" (14) is fitted on the beak pipe (3), the liquid is introduced through an opening portion (6) which is frictionally engaged."

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"The cap lid (8) threaded wit the top lid (9) is placed into threaded engagement with the threading portion (5)."

"For placing the bottle on the bottom face of the top lid (9) with the beak pipe being placed upwards, the inside of the bottle is kept under the air-tight condition through the engagement between the cap lid and the top lid via a "packing".

"For instilling this content liquid, the top lid (9) will be slightly threaded back so as to introduce ambient air via the aerating hole (18) and

communication is established with the inside of the bottle through a through hole (11) of the cap lid (8), whereby the liquid can be instilled freely through the beak pipe hole, and for stopping the instilling, simply a finger tip is placed on the through hole (13) to thread the cap lid (9) forward,
5 whereby the instilling can be stopped reliably “

What is claimed is:

“As shown in the figures, a construction of an instilling bottle, comprising a bottle body having a beak pipe (3) projecting at one end thereof and a
10 threading portion (5) at the other end thereof, a mouth portion (6) frictionally engaged with a leading end of the bottle body, a funnel pipe (12) engaged and fitted on the mouth portion, a cap lid (8) threaded on the threading portion (5) and defining a through hole (11) projecting at its top wall, and a top lid (9) fitted and engaged on the cap lid (8) and having an
15 aeration hole (13) in its lateral wall.”

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